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Undetectable on-line password guessing attacks

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↑ ABSTRACT

Several 3-party-based authentication protocols have been proposed, which are resistant to off-line password guessing attacks. We show that they are not resistant to a new type of attack called "undetectable on-line password guessing attack". The authentication server is not able to notice this kind of attack from the clients' (attacker's) requests, because they don't include enough information about the clients (or attacker). Either freshness or authenticity of these requests is not guaranteed. Thus the authentication server responses and leaks verifiable information for an attacker to verify his guess.

↑ CITINGS 4

[Ya-Fen Chang , Chin-Chen Chang, A secure and efficient strong-password authentication protocol, ACM SIGOPS Operating Systems Review, v.38 n.3, p.79-90, July 2004](#)

[Her-Tyan Yeh , Hung-Min Sun, Simple authenticated key agreement protocol resistant to password guessing attacks, ACM SIGOPS Operating Systems Review, v.36 n.4, p.14-22, October 2002](#)

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[Ya-Fen Chang , Chin-Chen Chang , Jui-Yi Kuo, A secure one-time password authentication scheme using smart cards without limiting login times, ACM SIGOPS Operating Systems Review, v.38 n.4, p.80-90, October 2004](#)